

PIXEL RESAMPLING SYSTEM AND METHOD FOR TEXT

ABSTRACT OF THE DISCLOSURE

A method and system for determining a transition model between input pixel samples from which output sample values are calculated based on various relative background and brightness conditions of the input pixel samples. A brightness condition is determined from the input sample values associated with the input pixel samples. A first transition model that preserves a constant luminance is used where the brightness condition is indicative of light isolated pixels and a second transition model that preserves a constant darkness is used where the brightness condition is indicative of dark isolated pixels. The resampling circuit may also use alternative models for other brightness conditions, such as for pixel transitions without any emphasis or alternating pixels. The resampling circuit may also perform modified operations for pixels arranged in a diagonal fashion.